

ABSTRACT

Provided herein are methods, combinations, kits and systems for self-assembly of a self-assembling array to produce self-assembled arrays. The self-assembling arrays contain addressed collections of capture agents and are used with binding partners and reagents for conjugation of binding partners to molecules and/or biological particles for display in self-assembled arrays. The capture agents at each locus in a self-assembling array are specific to one of a set of binding partner molecules. The binding partners are conjugated to molecules and/or biological particles for display. Following conjugation, the resulting conjugates are sorted on the array based on the specific interaction of the binding partner and the capture agent to produce a self-assembled array.